No. 8000011

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Illinois Foundation Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN

'FR 19'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 16th day of October in the year of our Lord one thousand nine hundred and eighty.

Attest:

Commissioner
Plant Variety Protection Office
Grain Division

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Attachment 13A. 8000011

FR 19

Wisconsin 1971	-	IFSI Nursery - Made cross W438xA635
Wisconsin 1972	-	Grew out F_1 - Row W72-269
Hawaii 1972	-	Grew 40 F_2 plants - Selfed 12 selected 4
Wisconsin 1973	-	Grew 4 rows - selected one
Hawaii 1974	-	Grew out - selected one row and bulked four selfs Row H743856
Wisconsin 1974	-	Selfed making S5
Wisconsin 1975	-	Crossed to seven testers
Wisconsin 1976	-	Continued selfing and testing
Wisconsin 1977	-	Continued selfing and testing

Offered FR19 for sale December 10, 1978.

FR19 was developed by the simple method of crossing two inbreds W438 and A635 and then selfing with stress selection within the F_1.

Dr. John Dillon made the original cross and the first two selfs. Dr. Frank Stark continued the selfing, selection and test crossing and chose the inbred for release.

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

FORM APPROVED
OMB NO. 40-R3822

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME	FOR OFFICIAL USE ONLY
	FR 19	PV NUMBER 8000011
2. KIND NAME: Corn	3. GENUS AND SPECIES NAME: Zea Mays	FILING DATE 11-9-79 / TIME 4:00 A.M. (P.M.)
4. FAMILY NAME (BOTANICAL): Gramineae	5. DATE OF DETERMINATION: 11-1-77	FEE RECEIVED $ 500.00 / $ 250.00 / DATE 11-6-79 / 9/16/80

6. NAME OF APPLICANT(S)	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*	8. TELEPHONE AREA CODE AND NUMBER
Illinois Foundation Seeds, Inc.	P.O. Box 722 - Champaign, IL 61820	(217)485-6260

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION	11. DATE OF INCORPORATION
Cooperative	Illinois - 1937	July 12, 1937

12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS:

Floyd S. Ingersoll - Illinois Foundation Seeds, Inc. - P.O. Box 722
Champaign, IL 61820

13. **CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:**

- [XX] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [X] 13B. Exhibit B, Novelty Statement. RJS 8/4/80
- [XX] 13C. Exhibit C, Objective Description of the Variety *(Request form from Plant Variety Protection Office.)*
- [ ] 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See Section 83(a). (If "Yes," answer 14B and 14C below.)* [ ] YES [XX] NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?
[ ] YES [ ] NO	[ ] FOUNDATION [ ] REGISTERED [ ] CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? [XX] YES [ ] NO *(If "Yes," give name of countries and dates.)*

Applying in France today.

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? [ ] YES [XX] NO *(If "Yes," give name of countries and dates.)*

Pending

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? [XX] YES [ ] NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

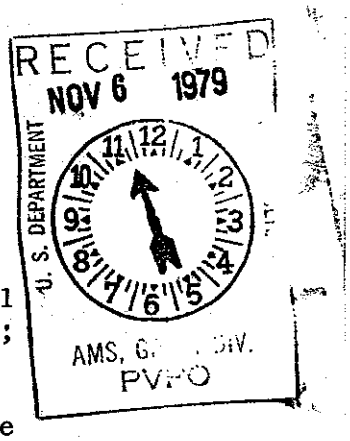
Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

(DATE)	(SIGNATURE OF APPLICANT)
10/30/79	Illinois Foundation Seeds Inc.
(DATE)	(SIGNATURE OF APPLICANT)
	Floyd S. Ingersoll

FORM GR-470 (1-78)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and $500 fee ($250 filing fee and $250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.



ITEM

5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.

14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

Illinois Crop Improvement Association, Inc.

508 South Broadway, Urbana, Illinois 61801

Office Hours: Mon. - Fri. 8:00 - 5:00 p.m. Telephone: 217-367-4053

Exhibit A

December 29, 1979

Dale Cochran
Illinois Foundation Seeds
Box 722
Champaign, Illinois 61820

Dear Dale:

This letter is to inform you that the FR19 plant material which we checked for you this last summer has passed both laboratory and field inspection.

We checked the field as an increase and found it to pass our inspection. Enclosed is a copy of the field and laboratory reports confirming our findings.

Sincerely,

James R. Shearl

James R. Shearl, Manager
ILLINOIS CROP IMPROVEMENT ASSOCIATION, INC.

JRS:kc
cc: Jerry McCormick

ILLINOIS CROP IMPROVEMENT ASSOCIATION

FIELD INSPECTION OF FOUNDATION CORN

EXHIBIT A

APPLICANT	GROWER	YEAR 1979
Illinois Foundation Seeds, Inc. Champaign, Illinois 61820	Luke Feeney Ivesdale, Illinois	COUNTY Champaign
		ACREAGE
		PLANTING DATE 5-15-79

DIRECTIONS TO FIELD

Ivesdale - North - Colfax Twp. Sec. 17 - Plot 7

16
18
234

		Distance To Other Corn (In Feet)				Border Rows
PLOT POLLINATOR	FR19					
PLANTING RATIO	2M - 6F	N 660+		S 660+		N 660+
TYPE		NE "		SW "		S "
COLOR	yellow	E "		W "		E "
INBRED/MALE INC. ACREAGE	23 A.	SE "		NW "		W "

	DATE	HOUR	REMARKS
Prelim. Insp.	7-13	2pm	isolation OK
1st Insp.	7-24	9:15am	
2nd Insp.	7-26	9am	
3rd Insp.	7-27	2pm	
4th Insp.	7-30	1pm	
5th Insp.	8-2	1pm	
6th Insp.	8-7	9am	acceptable - can be closed

TASSEL COUNTS TO BE REPORTED IF OVER 5% RECEPTIVE SILKS IN EAR PARENT

FIELD STARTS — W SIDE

		% OF FEMALE PLANTS THAT HAVE RECEPTIVE SILKS IN 5 COUNTS OF 100 PLANTS EA							% OF FEMALE PLANTS THAT HAVE SHED POLLEN*						
CROSS No. 1	FRB73	1	2	3	4	5	Total	Ave.	1	2	3	4	5	Total	Ave.
Ear Parent	1st Insp.	0 silks female							0	0	0	0	0	0	0
	2nd Insp.	10	16	2	2	4	34	6	0	0	0	0	0	0	0
Acreage 5	3rd Insp.	69	85	45	60	89	358	71	0	0	0	0	0	0	0
	4th Insp.	92	89	89	86	58	424	84	0	0	0	0	0	0	0
Blocks in Cross	5th Insp.	96	91	99	94	100	480	96	0	0	0	0	0	0	0
	6th Insp.														
CROSS No. 2	FRB73CMS								TOTAL AVERAGE FROM ABOVE						0
Ear Parent	1st Insp.	0 silks female							0						
	2nd Insp.							177	0						
Acreage 5	3rd Insp.	70	88	64	57	92	371	74	0						
	4th Insp.	93	90	95	98	100	476	95	0						
Blocks in Cross	5th Insp.														
	6th Insp.						close 8-7								
CROSS No. 3	~~FR19 Inc~~								TOTAL AVERAGE FROM ABOVE						0
Ear Parent	1st Insp.	some [illegible] present													
	2nd Insp.	no [illegible]							[illegible] closed [illegible]						
Acreage ~~25~~ 23	3rd Insp.	check [illegible]													
	4th Insp.	"							" [illegible]						
Blocks in Cross	5th Insp.	[illegible] - occasional [illegible]													
	6th Insp.														
CROSS No. 4	FR19CMS								TOTAL AVERAGE FROM ABOVE						
Ear Parent	1st Insp.	0 silks female													
	2nd Insp.							170	0	0	0	0	0	0	0
Acreage 4	3rd Insp.	74	65	85	61	18	300	60	0						
	4th Insp.	93	100	98	78	92	481	96	0						
Blocks in Cross	5th Insp.														
	6th Insp.						close 8-7								

ANY PLANTING MISTAKES BETWEEN MALE & FEMALE?	no	TOTAL AVERAGE FROM ABOVE	0
ISOLATION REQUIREMENTS SATISFIED?	yes	SHOULD FIELD BE APPROVED THUS FAR FOR CERTIFICATION?	yes
DETASSELING SATISFACTORY?	yes	INSPECTOR'S SIGNATURE AND DATE	[signature] 8-7-79
ANY DISCARD AREAS? WHERE?	no	no	

* If male increase or inbred, count off-type plants that have shed pollen.

EXHIBIT A RJS

CROP–VARIETY FR 19 LOT 744 C-1

NAME Ill. Found. Seeds

ADDRESS

PURITY VARIETAL GERMINATION

COLD TEST TETRAZOLIUM

CHARGE

PAID

FILE NO 1-45 1-50 TAGS POSTAGE MAILED

DATE OF PURITY TEST 12-10-79 DATE OF GERMINATION TEST DOCKAGE FROM 1,000 GRAMS

Pure Seed % Total % Total Grams

Weed Seed % Hard Seed %

Other Crops % Dead Seed % %

Inert Matter % Strong % Blowings from S. S. %

Broken Seed % Disease %

Other Inert % Cold Test % TZ %

Noxious Weeds No. Per Test Weight Purity from 500 grams Dockage Free ☐

Moisture Test %

Remarks

INERT MATTER

Broken Seed

Chaff Stones

Stems Sterile Florets

Dirt Other

OTHER CROPS

COMMON WEEDS

Total weight of sample examined

Grams examined for varietal purity

% other varieties found

Variety not confirmed by Laboratory Test

This sample has met Certification requirements based on source of seed, field inspection and laboratory analysis.

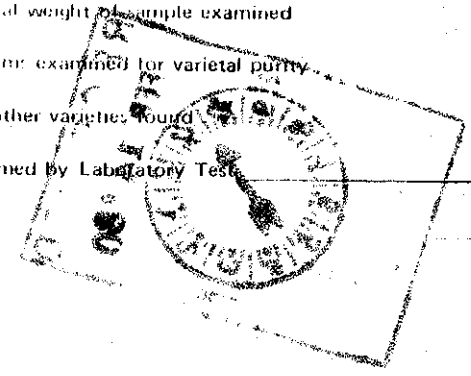


EXHIBIT A ajs

PRODUCTION GERMINATION SHEET

1979 CORN PRODUCTION NORMAL INBREDS Box# 3 Page# 1

	19	LOT#	PEDIGREE	GRADE	FILE#1	DEAD	ABNOR	WEAK	GERM
1	1-45	744C-I	FR19	18 Rd					95 %
2	1-46	"	"	20 Rd					96 %
3	1-47	"	"	22 Rd					95 %
4	1-48	"	"	18 F					96 %
5	1-49	"	"	20 F					96 %
6	1-50	"	"	22 F					96 %
7	1-45 1-50	"	"	UG	No	O. V. Found			%

EXIBIT B

CORN APPLICATION NO. 8000011, FR19

1. FR19 is a self from the single cross A635xW438 and is most similar to A635

2. Leaf widith is a character that demonstrates a distinct difference between FR16 and A635. We report leaf width of FR19 at 9 cm. and A635 at 6 cm. In any range of populations this character does not overlap.

3. Leaf angle with stalk as reported FR19 - 45° and A635 - 39°. In any range of populations this character does not overlap.

ILLINOIS FOUNDATION SEEDS, INC.

Signed: Floyd K. Rogers
Executive Vice President

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-28
(2-15-74)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
(Corn)

OBJECTIVE DESCRIPTION OF VARIETY

CORN *(ZEA MAYS)*

NAME OF APPLICANT(S)
Illinois Foundation Seeds, Inc.

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
P.O. Box 722
Champaign, IL-61820

FOR OFFICIAL USE ONLY
PVPO NUMBER
8000011
VARIETY NAME OR TEMPORARY DESIGNATION
FR 19

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. TYPE:

[2] 1 = SWEET 2 = DENT 3 = FLINT 4 = FLOUR 5 = POP 6 = ORNAMENTAL

2. REGION WHERE BEST ADAPTED IN THE U.S.A.:

[2] 1 = NORTHWEST 2 = NORTHCENTRAL 3 = NORTHEAST 4 = SOUTHEAST
5 = SOUTHCENTRAL 6 = SOUTHWEST 7 = MOST REGIONS

3. MATURITY (In Region of Best Adaptability):

(Under "omments" (pg. 3) state how heat units were calculated)

[6][6] DAYS FROM EMERGENCE TO 50% OF PLANTS IN SILK	[1][4][1][1]	HEAT UNITS
[ ][ ] DAYS FROM 50% SILK TO OPTIMUM EDIBLE QUALITY	[ ][ ][ ][ ]	HEAT UNITS
[4][7] DAYS FROM 50% SILK TO HARVEST AT 25% KERNEL MOISTURE	[1][0][5][2]	HEAT UNITS

4. PLANT:

[1][7][5] CM. HEIGHT (To tassel tip)

[0][5][1] CM. EAR HEIGHT (To base of top ear)

[1][2] CM. LENGTH OF TOP EAR INTERNODE

Number of Tillers:

[1] 1 = NONE 2 = 1–2 3 = 2–3 4 = > 3

Number of Ears Per Stalk:

[2] 1 = SINGLE 2 = SLIGHT TWO-EAR TENDENCY
3 = STRONG TWO-EAR TENDENCY 4 = THREE-EAR TENDENCY

Cytoplasm Type:

[1] 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTHER (Specify) _____

5. LEAF (Field Corn Inbred Examples Given):

Color:

[2] 1 = LIGHT GREEN (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK GREEN (B14) 4 = VERY DARK GREEN (K166)

Angle from Stalk (Upper half):

[2] 1 = < 30° 2 = 30–60° 3 = > 60°

Sheath Pubscence:

[3] 1 = LIGHT (W22) 2 = MEDIUM (WF9)
3 = HEAVY (OH26)

Marginal Waves:

[2] 1 = NONE (HY) 2 = FEW (WF9) 3 = MANY (OH7L)

Longitudinal Creases:

[1] 1 = ABSENT (OH51) 2 = FEW (OH56A)
3 = MANY (PA11)

Width:

[0][9] CM. WIDEST POINT OF EAR NODE LEAF

Length:

[0][5][7] CM. EAR NODE LEAF

[1][3] NUMBER OF LEAVES PER MATURE PLANT

8000011

6. TASSEL:

[0][8] NUMBER OF LATERAL BRANCHES

Branch Angle from Central Spike:

[3] 1 = < 30° 2 = 30–40° 3 = > 45°

Peduncle Length:

[0][6] CM. FROM TOP LEAF TO BASAL BRANCHES

Pollen Shed:

[3] 1 = LIGHT (WF9) 2 = MEDIUM 3 = HEAVY(KY21)

[4] **Anther Color:** } 1 = YELLOW 2 = PINK 3 = RED 4 = PURPLE 5 = GREEN

[6] **Glume Color:** } 6 = OTHER (Specify) Green + white with purple streaks

Pollen Restoration for Cytoplasms (o = Not Tested, 1 = Partial, 2 = Good)

[0] "T" [0] "S" [/] "C" [ ] OTHER (Specify Cytoplasm and degrees of restoration) _____

Non restorer for "C" cytoplasms

7. EAR (Husked Ear Data Except When Stated Otherwise):

[1][9] CM LENGTH [4][1] MM. MID-POINT DIAMETER [1][3][3] GM. WEIGHT

Kernel Rows:

[2] 1 = INDISTINCT 2 = DISTINCT [1][8] NUMBER

[2] 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = SPIRAL

Silk Color (Exposed at Silking Stage):

[1] 1 = GREEN 2 = PINK 3 = SALMON 4 = RED

Husk Color:

[1] FRESH } 1 = LIGHT GREEN 2 = DARK GREEN 3 = PINK

[6] DRY } 4 = RED 5 = PURPLE 6 = BUFF

Husk Extention: (Harvest Stage)

[3] 1 = SHORT (Ears Exposed) 2 = MEDIUM (Barely Covering Ear) 3 = LONG (8–10CM Beyond Ear Tip) 4 = VERY LONG (> 10 CM)

Husk Leaf:

[1] 1 = SHORT (< 8 CM) 2 = MEDIUM (8–15 CM) 3 = LONG (> 15 CM)

Shank:

[1][1] CM LONG [6] NO. OF INTERNODES

Position at Dry Husk Stage:

[3] 1 = UPRIGHT 2 = HORIZONTAL 3 = PENDENT

Taper:

[2] 1 = SLIGHT 2 = AVERAGE 3 = EXTREME

Drying Time (Unhusked Ear):

[3] 1 = SLOW 2 = AVERAGE 3 = FAST

8. KERNEL (Dried):

Size (From Ear Mid-Point):

[1][1] MM LONG [0][7] MM. WIDE [0][5] MM. THICK

Shape Grade (% Rounds)

[2] 1 = < 20 2 = 20–40 3 = 40–60 4 = 60–80 5 = > 80

8000011

8. KERNEL (Dried) :

[1] **Pericarp Color:** 1 = COLORLESS 2 = RED-WHITE 3 = TAN 4 = BRONZE 5 = BROWN 6 = LIGHT RED 7 = CHERRY RED 8 = VARIEGATED (Describe) _____

[1] **Aleurone Color:** 1 = HOMOZYGOUS 2 = SEGREGATING (Describe) _____

[1] 1 = WHITE 2 = PINK 3 = TAN 4 = BROWN 5 = BRONZE 6 = RED 7 = PURPLE 8 = PALE PURPLE 9 = VARIEGATED (Describe) _____

[3] **Endosperm Color:** 1 = WHITE 2 = PALE YELLOW 3 = YELLOW 4 = PINK-ORANGE 5 = WHITE CAP.

Endosperm Type:

[3] 1 = SWEET (su1) 2 = EXTRA SWEET (sh2) 3 = NORMAL STARCH 4 = HIGH AMYLOSE STARCH 5 = WAXY STARCH 6 = HIGH PROTEIN 7 = HIGH LYSINE 8 = OTHER (Specify) _____

[2][3] GM. WEIGHT /100 SEEDS (Unsized Sample)

9. COB:

[2][2] MM. DIAMETER AT MID-POINT

Strength:

[2] 1 = WEAK 2 = STRONG

Color:

[3] 1 = WHITE 2 = PINK 3 = RED 4 = BROWN 5 = VARIEGATED 6 OTHER (Specify) _____

10. DISEASE RESISTANCE (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

[0]	STALK ROT (Diplodia)	[0]	STALK ROT (Fusarium)	[0]	STALK ROT (Gibberella)
[1]	NORTHERN LEAF BLIGHT	[1]	SOUTHERN LEAF BLIGHT	[0]	SMUT
[1]	SOUTHERN RUST	[0]	CORN SMUT	[0]	BACTERIAL WILT
[0]	BACTERIAL LEAF BLIGHT	[0]	MAIZE DWARF MOSAIC	[0]	STUNT
[0]	OTHER (Specify)				

11. INSECT RESISTANCT (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

[1]	CORNBORER	[0]	EARWORM	[0]	SAPBEETLE	[2]	APHID
[0]	ROOTWORM (Northern)	[0]	ROOTWORM (Western)				
[0]	ROOTWORM (Southern)	[0]	OTHER (Specify) _____				

12. VARIETIES MOST CLOSELY RESEMBLING THAT SUBMITTED FOR THE CHARACTERS GIVEN:

CHARACTER	VARIETY	CHARACTER	VARIETY
Maturity	A635	Kernel Type	W438
Plant Type	A635xW438	Quality (Edible)	
Ear Type	W438	Usage	

REFERENCES:

U.S. Department Agriculture. Yearbook 1937.

Corn: Culture, Processing, Products. 1970 Avi Publishing Company, Westport, Connecticut. (Numerous (Authors)

Emerson, R.A., G.W. Beadle, and A.C. Fraser. A Summary of Linkage Studies in Maize.Cornell A.E.S., Mem. 180. 1935.

The Mutants of Maize. 1968. Crop Science Society of America. Madison, Wisconsin.

Stringfield, G.H. Maize Inbred Lines of Ohio. Ohio A.E.S. Bul. 831. 1959.

Butler, D.R. 1954 — A System for the Classification of Corn Inbred Lines — PhD. Thesis, Ohio State University.

COMMENTS: